

Florida State University CGS 5765 / COP 4610 Introduction to Operating Systems Recitation (Fall 2009) Syllabus

Course Information

Lecture: T R 2:00 pm – 3:15 pm HCB 216
Recitation: W 10:10 am – 11:00 am LOV 301

Instructor

Andy Wang (awang@cs.fsu.edu)
Office: 264 Love Building
Office hours: Th 4 pm – 5 pm, F 4 pm – 5 pm, and by appointment
Class website: http://www.cs.fsu.edu/~awang/courses/cop4610_f2009

TA:

Alejandro Cabrera (cop4610t@cs.fsu.edu)
Office: LOV 105E
Office Hours: M 2 pm – 3 pm, W 2 pm – 3 pm
Lab website:
<http://www.cs.fsu.edu/~cop4610t/>

Projects

Students will complete the class projects in teams of two. Each project will consist of a project report, a README, and a project solution. All project components are to be submitted electronically via emails, with the name of the attached file in the subject line.

Project Grading Policy

Partial credit will be given for incomplete efforts. However, a program that cannot compile cannot get more than 30 points.

The maximum grade for each project is 100 points.

- Project implementation: 70 pts
- Documentation: 30 pts
 - README (5 pts)
 - Final project report (15 pts)
 - Code documentation (10 pts)
 - Variable/functions names indicate purpose of variable/function. (5 pts)
 - Readability (indentation, white space) (5 pts)

If the project solution does not compile as specified in the README file, 70 points will be deducted from the total project grade. It is the student's responsibility to make sure that the solution archive will un-tar correctly and decompress correctly (if gzipped). Please test your instructions (e.g. cutting and pasting your shell commands) in the README file as if you are the grader prior to submitting them.

Bugs and Grading

Your README will contain a list of all known bugs in your program. Undocumented bugs will incur a greater penalty.

*Demonstrating that you understand why a program has a bug, even if you are unsure of how to fix it, shows that you are thorough. An undocumented bug shows that you do not understand the program, or that you tried to hide a flaw. Undocumented bugs only slow down future development!

If not otherwise specified in an individual project's write-up, the following directions should be used for the README and final project report of a project.

README:

The README will be a plain, ASCII .txt file. It will contain:

- The Project team members' names
- The Contents of your tar archive and a brief description of each file
- The version of Linux that you used to complete the project (Alternatively, the name of the server you completed it on)
- How to compile your executables
- Known bugs and unfinished portions of the project
- Special considerations or anything I should know when grading your solution

Final Project Report

A final project report will be a plain, ASCII text file. It will contain:

- The project problem statement
- The steps your team took to solve the problem
- Why your solution uses the system calls/libraries that it does
- Problems encountered
- Division of labor between team members;
- Cumulative log entries for the entire project
- Responses to questions (if any) in the project

Project Submission Procedure

The attached project solution will include all of the project solution files archived together and should be named in the following format: p<project#>-opsys-<member1_last_name>-<member2_last_name>.tar.gz (e.g. p1-opsys-cabrera-wang.tar.gz).

The project solution should contain the following:

- README File
- Makefile: This is the Makefile to build your executable.
- Final project report
- Source code files (e.g. header files and all dependent files) needed to build your project solution.

To archive the entire project solution files together, use the following tar command. Change the directory to the directory above your project directory, then issue:

```
tar cvf <tarfile-name.tar> <project_directory_name>
```

This *tar* command will archive all of the files in the project directory into a single file with the name given. For more information, issue *man tar* at a Linux command prompt.

Compressed tar archives are acknowledged by the FSU email system. To compress a tar archive, issue the following command:

```
gz <tarfile-name.tar>
```

This will produce <tarfile-name.tar>.gz.

Once the above steps have been completed, email the resulting gzip archive to the TA before the deadline.

* Make sure to strip the archive of any executables. The FSU webserver strips attachments if they contain executables.

Late Submission Policy

For each day a project is late, you will lose a slack day. Once out of slack days, late project solutions will incur a 10-point deduction each day the project is late. Project solutions received after three days from the original due date will receive 0 points. For example, a project solution submitted anytime on the Tuesday after the original due date of Friday will receive 0 points. Weekends count.

Slack Days

Each student has three slack days. A slack day may be used to turn in a project solution a day late without incurring the 10 point deduction. Slack days cannot be used in fractional amounts.

Slack days are computed at the *student level*, not at the team level. For example, if student A who has no slack days remaining joins student B with one slack day left, a one-day late project submission with student B using the one slack day will result in a 10-point deduction for student A, but not student B.

To use a slack day, indicate in the submission how many slack days are being used by each team member. If you do indicate how many slack days are used by each member and the project is late, it will be assumed that each member wanted to use as many slack days as needed to compensate for project lateness.

Slack days cannot be used for the final project, due to grade deadlines.

General Project Submission Policy

1. Each team only needs to make one email submission, with one copy of your project.
2. If you submit multiple times, we will only grade the email with the latest time stamp.
3. You may *gzip* a *tar* file for your project solution, the file extension must be *.tar.gz*.
4. Grade appeals may be brought for discussion to a TA up to one week after the grade was received. Any discrepancy brought for discussion to a TA after one week after the grade was received will not be heard.

Students' Responsibility

Start on your projects early. The recitation slides are posted on the lab website. If the instructions are not clear to you, please ask your instructors for clarification.

Reference Material

- [Gary Nutt's supporting page](#) for his textbook: *Operating Systems*, Addison Wesley Longman, 2003.
- [Charles Crowley's supporting page](#) for his textbook: *Operating Systems: A Design-Oriented Approach*, IRWIN, 1997.
- [Avi Silberschatz and Peter Galvin's supporting page](#) for their textbook: *Operating Systems Concepts*, Eight edition, Addison-Wesley Longman, 2008.
- [Linux Journal: Proper Linux Kernel Coding Style](#)
- [Linux Cross Reference Official Kernel Coding Style Doc \(kernel 2.6.30.5\)](#)

Florida State Academic Honor Code

Students are expected to uphold the academic honor code (<http://www.fsu.edu/Books/Student-Handbook/codes/honor.html>).

Accommodation for Disabilities

Students with disabilities needing academic accommodations should: 1. Register with and provide documentation to the Student Disability Resource Center (SDRC); 2. Bring a letter to the instructor from the SDRC indicating your need academic accommodations. This should be done within the first week of class. *This syllabus and other class materials are available in alternative format upon request.*